

WORKSHOP MANUAL

L2800,L3400

Kubota

TO THE READER

This Workshop Manual has been prepared to provide servicing personnel with information on the mechanism, service and maintenance of L2800 and L3400. It is divided into three parts, "General", "Mechanism" and "Servicing".

General

Information on the tractor identification, the general precautions, maintenance check list, check and maintenance and special tools are described.

Mechanism

Information on the construction and function are included. This part should be understood before proceeding with troubleshooting, disassembling and servicing.

Refer to Diesel Engine / Tractor Mechanism Workshop Manual (Code No. 9Y021-01874 / 9Y021-18201) for the one which has not been described to this workshop manual.

Servicing

Information on the troubleshooting, servicing specification lists, tightening torque, checking and adjusting, disassembling and assembling, and servicing which cover procedures, precautions, factory specifications and allowable limits.

All information illustrations and specifications contained in this manual are based on the latest product information available at the time of publication.

The right is reserved to make changes in all information at any time without notice.

Due to covering many models of this manual, information or picture being used have not been specified as one model.

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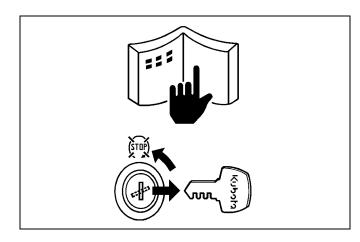
January 2004

A SAFETY FIRST

This symbol, the industry's "Safety Alert Symbol", is used throughout this manual and on labels on the machine itself to warn of the possibility of personal injury. Read these instructions carefully. It is essential that you read the instructions and safety regulations before you attempt to repair or use this unit.

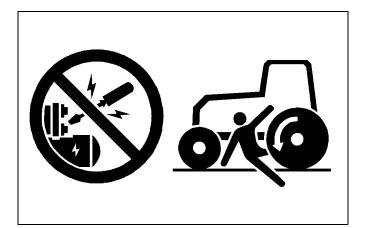
	: Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.
	: Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.
	: Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.
■ IMPORTANT	: Indicates that equipment or property damage could result if instructions are not followed.

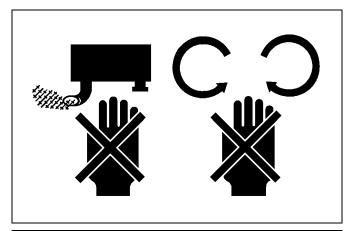
■ NOTE	: Gives	helpful	information.
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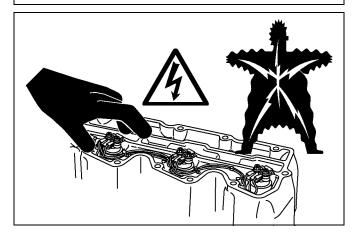
BEFORE SERVICING AND REPAIRING

- Read all instructions and safety instructions in this manual and on your machine safety decals.
- Clean the work area and machine.
- Park the machine on a firm and level ground, and set the parking brake.
- Lower the implement to the ground.
- Stop the engine, and remove the key.
- Disconnect the battery negative cable.
- Hang a "DO NOT OPERATE" tag in operator station.









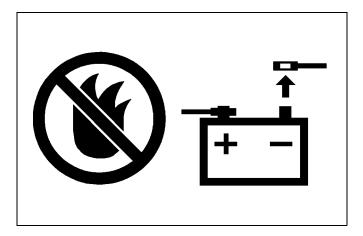
SAFETY STARTING

- Do not start the engine by shorting across starter terminals or bypassing the safety start switch.
- Do not alter or remove any part of machine safety system.
- Before starting the engine, make sure that all shift levers are in neutral positions or in disengaged positions.
- Never start the engine while standing on ground. Start the engine only from operator's seat.

SAFETY WORKING

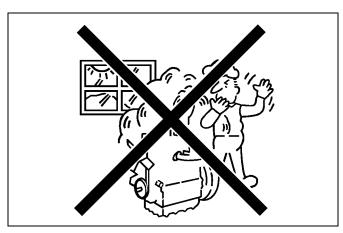
- Do not work on the machine while under the influence of alcohol, medication, or other substances or while fatigued.
- Wear close fitting clothing and safety equipment appropriate to the job.
- Use tools appropriate to the work. Makeshift tools, parts, and procedures are not recommended.
- When servicing is performed together by two or more persons, take care to perform all work safely.
- Do not work under the machine that is supported solely by a jack. Always support the machine by safety stands.
- Do not touch the rotating or hot parts while the engine is running.
- Never remove the radiator cap while the engine is running, or immediately after stopping. Otherwise, hot water will spout out from radiator. Only remove radiator cap when cool enough to touch with bare hands. Slowly loosen the cap to first stop to relieve pressure before removing completely.
- Escaping fluid (fuel or hydraulic oil) under pressure can penetrate the skin causing serious injury. Relieve pressure before disconnecting hydraulic or fuel lines. Tighten all connections before applying pressure.
- Do not open high-pressure fuel system. High-pressure fluid remaining in fuel lines can cause serious injury. Do not disconnect or attempt to repair fuel lines, sensors, or any other components between the high-pressure fuel pump and injectors on engines with high pressure common rail fuel system.
- High voltage exceeding 100 V is generated in the ECU and injector.

Pay sufficient caution to electric shock when performing work activities.



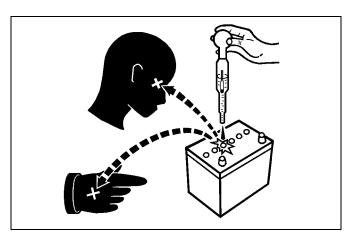
AVOID FIRES

- Fuel is extremely flammable and explosive under certain conditions. Do not smoke or allow flames or sparks in your working area.
- To avoid sparks from an accidental short circuit, always disconnect the battery negative cable first and connect it last.
- Battery gas can explode. Keep sparks and open flame away from the top of battery, especially when charging the battery.
- Make sure that no fuel has been spilled on the engine.



VENTILATE WORK AREA

• If the engine must be running to do some work, make sure the area is well ventilated. Never run the engine in a closed area. The exhaust gas contains poisonous carbon monoxide.



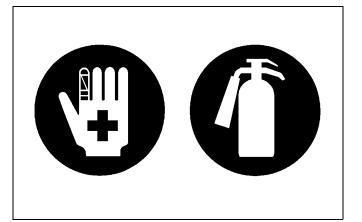
PREVENT ACID BURNS

 Sulfuric acid in battery electrolyte is poisonous. It is strong enough to burn skin, clothing and cause blindness if splashed into eyes. Keep electrolyte away from eyes, hands and clothing. If you spill electrolyte on yourself, flush with water, and get medical attention immediately.



DISPOSE OF FLUIDS PROPERLY

• Do not pour fluids into the ground, down a drain, or into a stream, pond, or lake. Observe relevant environmental protection regulations when disposing of oil, fuel, coolant, electrolyte and other harmful waste.



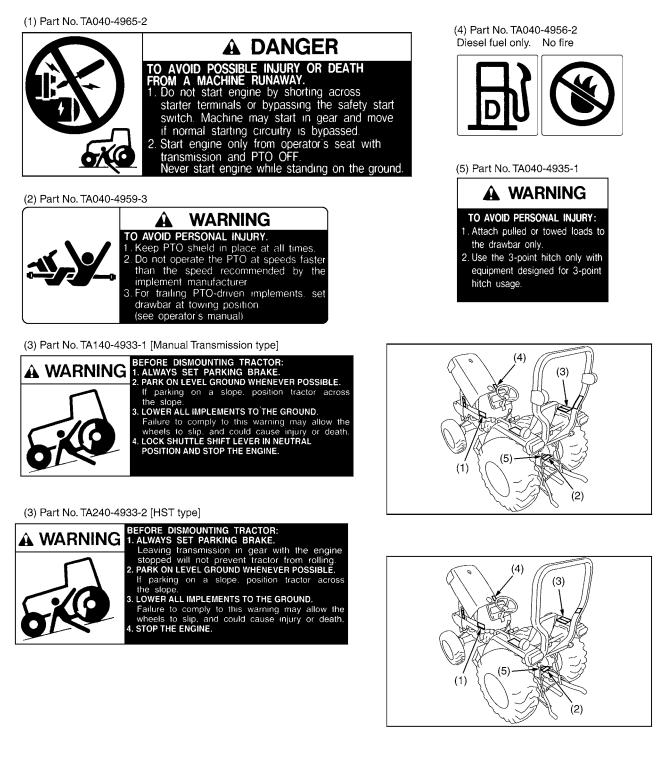
PREPARE FOR EMERGENCIES

- Keep a first aid kit and fire extinguisher handy at all times.
- Keep emergency numbers for doctors, ambulance service, hospital and fire department near your telephone.

SAFETY DECALS

The following safety decals are installed on the machine.

If a decal becomes damaged, illegible or is not on the machine, replace it. The decal part number is listed in the parts list.



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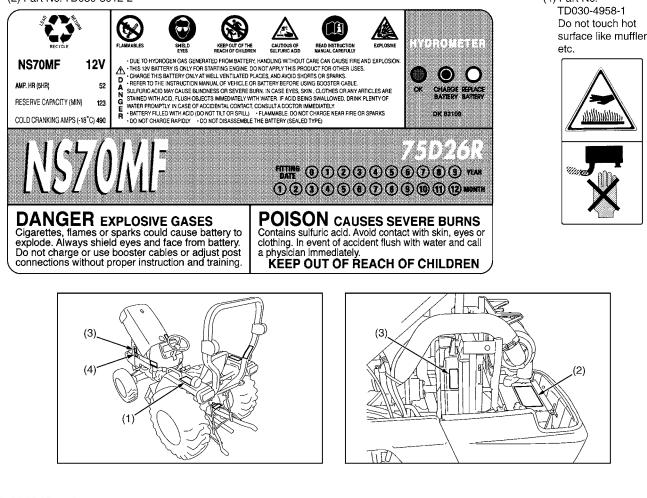
(1) Part No. 35260-3491-4

A C A U T I O N

TO AVOID PERSONAL INJURY:

- 1. Read and understand the operator's manual before operation.
- 2. Before starting the engine, make sure that everyone is at a safe distance from the tractor and that the PTO is OFF.
- 3. Do not allow passengers on the tractor at any time.
- 4. Before allowing other people to use the tractor, have them read the operator's manual.
- 5. Check the tightness of all nuts and bolts regularly.
- 6. Keep all shields in place and stay away from all moving parts.
- 7. Lock the two brake pedals together before driving on the road.
- Slow down for turns, or rough roads, or when applying individual brakes.
 On public roads use SMV emblem and hazard lights, if required by local traffic and safety regulations.
- 10. Pull only from the drawbar.
- 11. Before dismounting, lower the implement to the ground, set the parking brake, stop the engine and remove the key.
- 12. Securely support tractor and implements before working underneath.

(2) Part No. TD030-3012-2

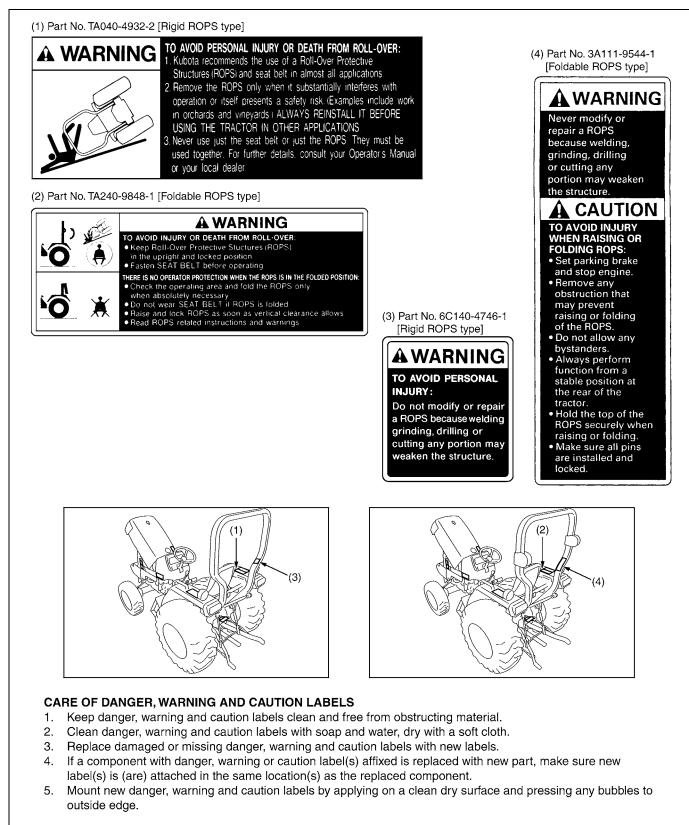




(4) Part No. surface like muffler.



3TLAAABCP002A



3TLAAABCP011A

SPECIFICATIONS

Madal		L2800		L3400				
Model			2WD	4WD	4WD	4WD		
PTO power			17.9 kW (24.0 HP)		21.6 kW (29.0 HP)			
	Maker		KUBOTA					
	Model		D1403-M-E2A D1703-MA-E2A			MA-E2A		
	Туре			Vertical, water-cooled, 4-cycle diesel				
Engine	Number of cy	linders	3		3			
	Bore and stro	ke	80 × 92.4 mm (3.1 × 3.6 in.)		87×92.4 mm (3.4×3.6 in.)			
	Total displace	ment	1.393 L (85.0 cu.in.)		1.647 L (101.0 cu.in.)			
	Engine gross	power	21.6 kW (29.0 HP)		25.9 kW (34.7 HP)			
	Rated revolut	ion	46.7 rps (2800 min ⁻¹ (rpm))		45.0 rps (270	0 min ⁻¹ (rpm))		
	Maximum tor	que	89.2 N·m (65.8 ft-lbs)		108.6 N⋅m	(80.1 ft-lbs)		
	Battery		12 V. RC : 123 min, CCA : 490 A					
	Fuel		Diesel fuel No. 2-D					
	Fuel tank		34.0 L (9.0 U.S.gals)					
	Engine crank	case (with filter)	5.7 L (6.0 U.S.qts)					
Capacities	Engine coola	nt	6.0 L (6.3 U.S.qts)					
	Transmission case		27.0 L (7.1 U.S.gals)	27.5 L (7.3 U.S.gals)	27.0 L (7.1 U.S.gals)	27.5 L (7.3 U.S.gals)		
	Overall length (without 3P)		2810 mm (110.6 in.)	2705 mm (106.5 in.)	2810 mm (110.6 in.)	2705 mm (106.5 in.)		
	Overall width (minimum tread)		1305 mm (51.4 in.)					
	Overall heigh	t (with ROPS)	2160 mm (85.0 in.)					
Dimensions	Overall height (Top of steering wheel)		1475 mm (58.1 in.)					
	Wheel base		1610 mm (63.3 in.)					
	Min.ground clearance		345 mm (13.6 in.)	340 mm (13.4 in.)	345 mm (13.6 in.)	340 mm (13.4 in.)		
		Front	1050 mm (41.3 in.)	1095 mm (43.1 in.)	1050 mm (41.3 in.)	1095 mm (43.1 in.)		
	Tread	Rear	1290 mm (50.8 in.)			I		
Weight (with F	ROPS)	1	1070 kg (2359 lbs)	1150 kg (2536 lbs)	1090 kg (2403 lbs)	1170 kg (2580 lbs)		
Clutch			Dry type single stage		Dry type dual stage			
	-	AG Front	5.00 - 15	7.00 - 16	5.00 - 15	7.00 - 16		
Traveling system	Tires	AG Rear	11.2 - 24			I		
	Indust. (option) Front / Rear		-	27 × 8.50 - 15 / 15 - 19.5R4	-	27 × 8.50 - 15 / 15 - 19.5R4		
	Steering		Integral type power steering					
	Transmission		Gear shift, 8 forward and 4 reverse					
	Brake		Wet disk type					
	Min. turning radius (with brake)			2.4 m (1	7.9 feet)			

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(continued)

Model		L2800		L3400		
		2WD	4WD	4WD	4WD	
	Hydraulic co	ontrol system	Position control			
	Pump capad	city (main)	24.7 L/min (6.5 gal/min)		23.9 L/min (6.3 gal/min)	
Hydraulic unit	Pump capacity (PS)		15.0 L/min (4.0 gal/min)		14.5 L/min (3.8 gal/min)	
	Three point hitch		Category 1			
	Max. lift force	At lift points		906 kg ((1998 lbs)	
		24 in. behind lift points		651 kg ((1435 lbs)	
	System pressure		15.7 MPa (160 kgf/cm ²)			
PTO	Rear PTO		SAE 1-3/8, 6-splines (with overrunning clutch on single clutch tractor)			itch tractor)
	PTO / Engine speed		540 / 2430 n	nin-1 (rpm)	540 / 2425	min ⁻¹ (rpm)

NOTE: *Manufacture's estimate

The company reserves the right to change the specifications without notice.

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Model			L2800	L3400	
			4WD HST	4WD HST	
PTO power*			16.8 kW (22.5 HP)	20.5 kW (27.5 HP)	
	Maker		KUBOTA		
	Model		D1403-M-E2A D1703-MA-E2A		
	Туре		Indirect injection, Vertical, Water-cooled 4 cycle diesel		
	Number of cyli	nders	3		
	Bore and strok	(e	80×92.4 mm (3.1 \times 3.6 in.)	87×92.4 mm (3.4×3.6 in.)	
Enging	Total displacer	ment	1.393 L (85.0 cu.in.)	1.647 L (101.0 cu.in.)	
Engine	Engine gross	oower*	21.6 kW (29.0 HP)	25.9 kW (34.7 HP)	
	Engine net por	wer*	20.5 kW (27.5 HP)	24.8 kW (33.3 HP)	
	Rated revolution	on	46.7 rps (2800 min ⁻¹ (rpm))	45.0 rps (2700 min ⁻¹ (rpm))	
	Maximum torq	ue	89.2 N·m (65.8 ft-lbs)	108.6 N·m (80.1 ft-lbs)	
	Battery		12 V. RC : 123 min, CCA : 490 A		
	Fuel		Diesel fuel No. 1-D, No. 2-D		
	Fuel tank		34.0 L (9.0 U.S.gals)		
	Engine crankc	ase (with filter)	5.7 L (6.0 U.S.qts)		
Capacities	Engine coolant		6.0 L (6.3 U.S.qts)		
	Transmission case		23.5 L (6.2 U.S.gals)	23.5 L (6.2 U.S.gals)	
	Overall length (with 3P)		2705 mm (106.5 in.)	2705 mm (106.5 in.)	
	Overall width (minimum tread)	1305 mm (51.4 in.)		
	Overall height	(with ROPS)	2160 mm (85.0 in.)		
Dimensions	Overall height (Top of steering wheel)		1475 mm (58.1 in.)		
	Wheel base		1610 mm (63.3 in.)		
	Min.ground clearance		340 mm (13.4 in.)	340 mm (13.4 in.)	
		Front	1095 mm (43.1 in.)	1095 mm (43.1 in.)	
	Tread	Rear	1020 mm (40.2 in.), 1115 mm (43.8 in.), 7	1195 mm (47.1 in.), 1290 mm (50.8 in.)	
Weight (with ROPS)			1180 kg (2600 lbs)	1180 kg (2600 lbs)	
	Time	AG Front	7.00 - 16	7.00 - 16	
	Tires	AG Rear	11.2 -	- 24	
Traveling system	Indust. (option) Front / Rear		27 × 8.50 - 15 / 15 - 19.5R4	27 × 8.50 - 15 / 15 - 19.5R4	
	Clutch		Dry type single stage		
	Steering		Integral type power steering		
	Transmission		Hydrostatic transmission, 3 range speed		
	Brake		Wet disk type		
	Min. turning radius (with brake)		2.5 m (8.2 feet)		

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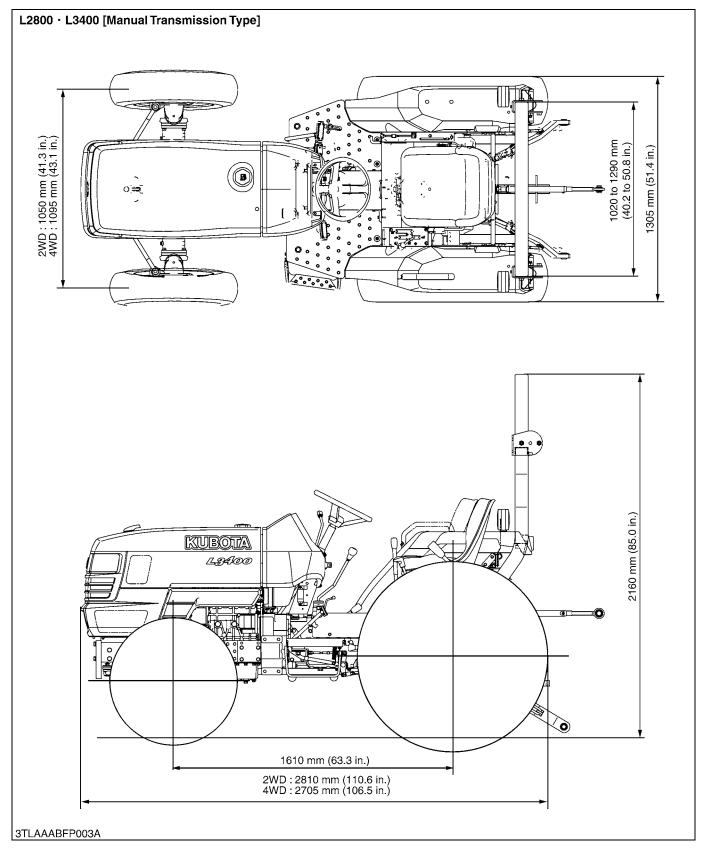
Model			L2800	L3400	
			4WD HST	4WD HST	
Hydraulic control system		trol system	Position control		
Pump capacity (main)		y (main)	24.7 L/min (6.5 gal/min)	23.9 L/min (6.3 gal/min)	
Pump capacity (PS)		y (PS)	15.0 L/min (4.0 gal/min)	14.5 L/min (3.8 gal/min)	
Hydraulic	ydraulic Three point hitch		Category 1		
unit Max. lift force	Max lift	At lift points	906 kg (1998 lbs)		
		24 in. behind lift points	651 kg (1435 lbs)		
System pressure		ure	15.7 MPa (160 kgf/cm ²)		
РТО	PTO shaft Rear PTO size		SAE 1-3/8, 6-splines		
		Туре	Live-continuous with overrunning clutch	Live-continuous with overrunning clutch	
	PTO / Engine	speed	540 / 2580 min ⁻¹ (rpm)	540 / 2580 min ⁻¹ (rpm)	

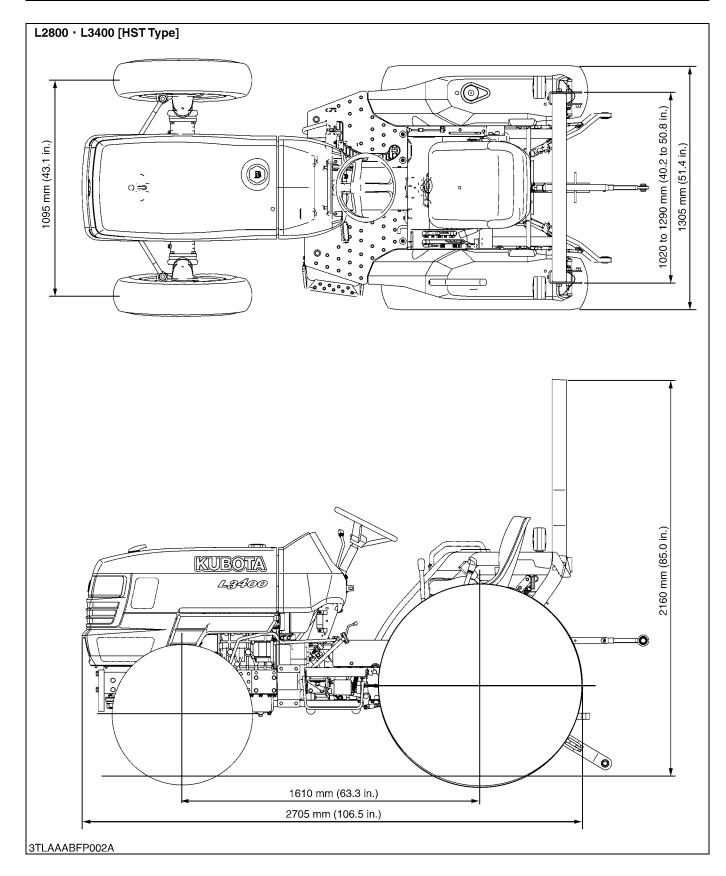
NOTE: *Manufacture's estimate

The company reserves the right to change the specifications without notice.

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DIMENSIONS





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